



Sudhagar Mani, professor, University of Georgia, is being honored for his work in biomass supply logistics, pelleting and torrefaction, thermochemical conversion, sustainability assessments of biofuels, and bioproducts.

Mani is a professor in the School of Chemical, Materials and Biomedical Engineering in the College of Engineering at the University of Georgia (UGA). He also holds an adjunct professor appointment in the

department of food science and technology, college of agricultural and environmental sciences, also at UGA. There, he instructs undergraduate and graduate students in fundamental and advanced engineering courses and conducts research.

Mani conducts interdisciplinary research in the field of sustainable biomass and bioenergy. His research focuses on supply chain modeling and logistics, preprocessing and thermochemical conversion of biomass and other organic materials, techno-economic analysis, and life cycle assessment of biofuels, biochemicals, and bioproducts to foster a circular bioeconomy. Mani has made significant advancements in the field of sustainable bioenergy, food, and bioprocess engineering. He has developed GIS-based supply logistics models integrated with machine learning prediction tools to estimate the sustainable availability of biomass and its delivered cost to a biorefinery. He has also made significant advancements in the development of biomass torrefaction technology to produce solid biofuels to displace coal for heat and power generation while significantly reducing greenhouse gas emissions to address climate change. Mani has led a project team focused on identifying high-impact climate solutions that would not only mitigate greenhouse gas emissions but also generate significant economic impact from food and agricultural systems throughout the state of Georgia.

A 23-year member of ASABE, Mani has served as a member and leader on a number of committees, including the journal editorial committee and the bio-based energy, fuels and products committee. He also serves as an ASABE journal editor for processing systems communities and as an associate editor for processing systems and energy systems technical communities.

Mani is author or coauthor of more than 280 peer-reviewed articles, conference proceeding papers, and book chapters. He also holds two US patents. Throughout his career, Mani has received a number of awards. Most recently, he received a certificate of recognition from the Technical Association of the Pulp and Paper Institute at the International Bioenergy and Bioproducts Conference. He was named a Service-Learning Fellow at the UGA and received the Lowry H. Gillespie Jr. Engineering Curriculum Enhancement award also from UGA.